FIG. 1

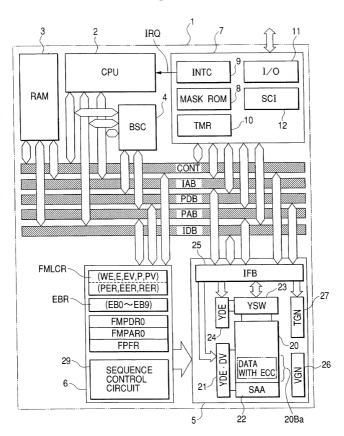
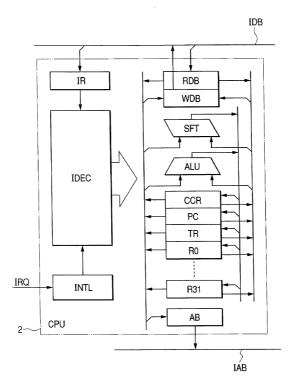
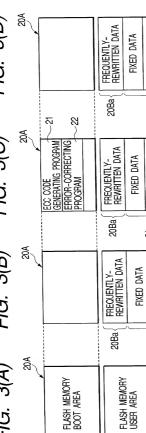
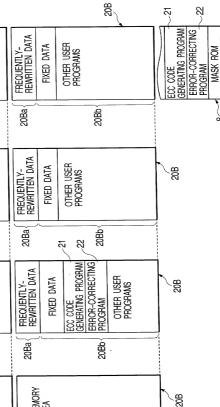


FIG. 2







NUMBER OF USER DATA BITS	NUMBER OF ECC CODE BITS	OVERHEAD	CORRECTING CAPABILITY
8 BITS	4 BITS	50%	1 BIT OF 8 BITS
16 BITS	5 BITS	31%	1 BIT OF 16 BITS
32 BITS	6 BITS	19%	1 BIT OF 32 BITS
64 BITS	7 BITS	11%	1 BIT OF 64 BITS
128 BITS	8 BITS	6%	1 BIT OF 128 BITS
256 BITS	9 BITS	4%	1 BIT OF 256 BITS

USER DATA 1	USER DATA 2	USER DATA 3	USER DATA 4	DA1
USER DATA 1	ECC CODE 1	USER DATA 2	ECC CODE 2	USER DATA 3
ECC CODE 1	ECC CODE 2	ECC CODE 3	ECC CODE 4	DA3

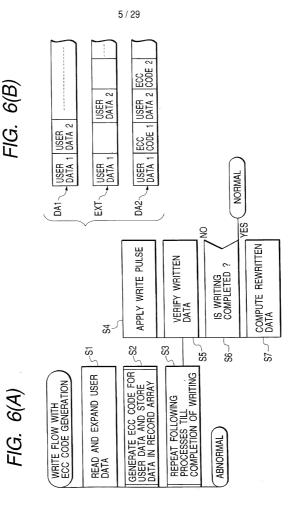
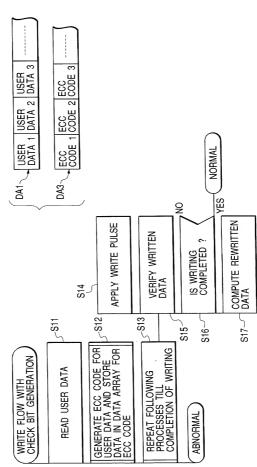
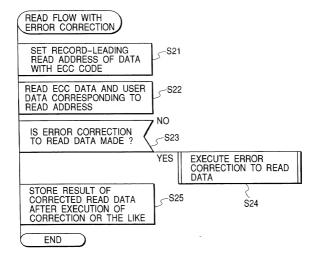


FIG. 7(B)

FIG. 7(A)





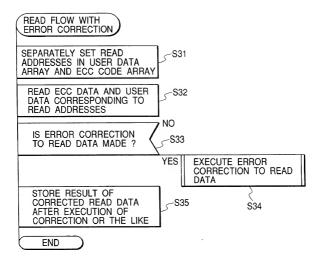


FIG. 10

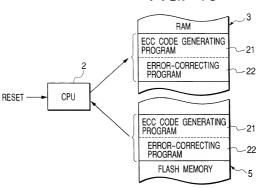


FIG. 11

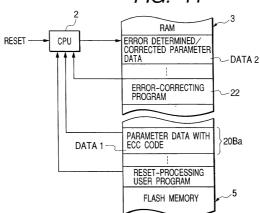


FIG. 12

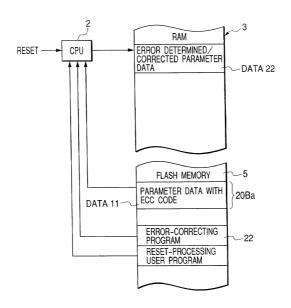


FIG. 13

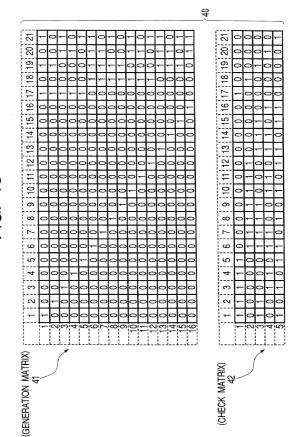
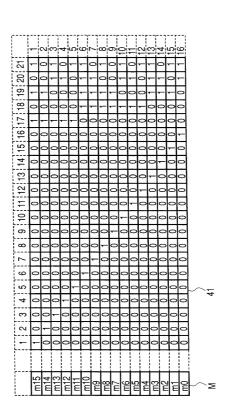


FIG. 14



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FIG. 15

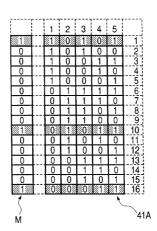


FIG. 16

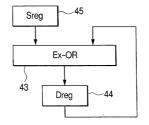


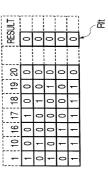
FIG. 17

FIRST ROW	1		1	0	1	0	1	
TENTH ROW	1		0	1	0	1	1	
SIXTEENTH ROW	1		0	0	0	1	1	
								_
Ex-OR RESULT	l	Ĺ	1	1	1	0	1	
		[-			-	;	

FIG. 18

			45					9
			_	Ì			1	
72	0	0	0	0				
ន	0	0	0	-	0		0	
6	0	0	1111	0	<u></u>		1111	
1	<i>iiii</i>		M.	M				
1	1	0	0	0	0		1	
16	0	0	0	1111				
15	0	0	1	0	+		0	
11 12 13 14 15 16 17 18 19 20 21	0	0	-	1	0		0	
13	0	0	1	1	1		0	
12	0	1	0	0	1		0	
=	0	-	0	ŀ	0		0	
9	0	-	0	<u> </u>	-		100	
6	0	-	-	0	0		0	
		\vdash	┝	-	-	 		
∞	0	٣	-	0	Ε	ļ	0	
	0	二	-	Ξ	0	L.,	0	
9	0	ŀ	-	-	-		0	
5	-	0	0	0	-		0	
4	F	0	0	F	0	Ī	0	
8	F	0	0	-	-	Ī-	0	
2	亡	6	L	6	0	t		1
		100		100		ł	1111	
ļ				200	iiii	ļ.,		
	-	2	က	4	5			
L	Ĺ	l	i	i	i	j	j	;

FIG. 19



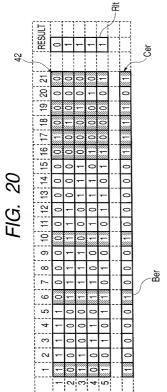
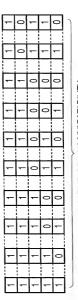


FIG. 21

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RIL INDICATIVE OF UNCORRECTABILITY

FIG. 22

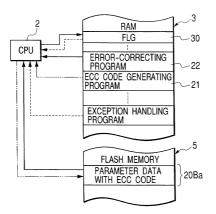


FIG. 23

-			128 b	yte		
USER DATA 16 bits	WORK 11 bits	CHECK DATA 5 bits	USER DATA 16 bits	WORK 11 bits	CHECK DATA 5 bits	4
-			4	byte	-	

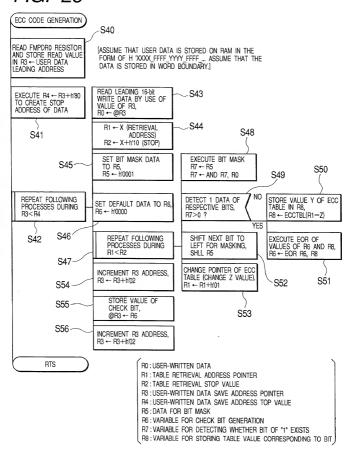
FIG. 24

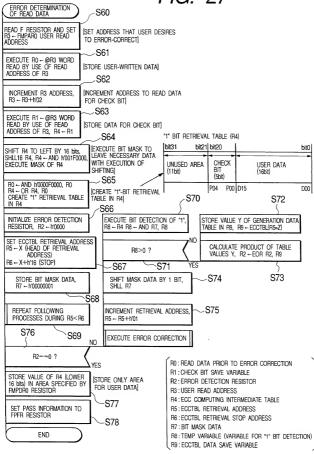
CONFIGURATION OF ECC DATA BLOCK	N P	8	DATA	, BLOC	쏡											
ВТ	3	8	31 30 29 28 27 26 25 24 23 22	78	27	88	22	24	23	22	72	20	21 20 19 18 17 16	18	17	16
UNCTION NAME D15 D14 D13 D12 D11 D10 D09 D08 D07 D06 D05 D04 D03 D02 D01 D00	D15	D14	D13	D12	11	D10	600	D08	D07	90G	D05	D04	D03	D02	9	8
EFAULT VALUE						ISN	ER-WR	USER-WRITTEN DATA	DATA							
REMARKS			USER	-WRITT	EN DAT	'A (DAT	'A THA	USER-WRITTEN DATA (DATA THAT USER DESIRES TO ERROR-CORRECT)	3 DESI	RES TC	ERRO	R-COR	(RECT)			

	0	8		
	_	<u>Р</u>		ВЩ
	2	02 P		HECK
	3	-03 F		CODING CHECK BIT
	4	P04 P03 P02 P01 P00		g
	5	1		
	9	ı	-	
	7	1	USER TRANSFER ALL "1"	
	8	1	NSFER	
	6	1	ER TR	
	13 12 11 10	1	S	NUSED
	Ξ	1		
	12	ı		
	13	1		
\	14	ı		
\	155	1		

RETRIEVAL ADDRESS (Z)	DATA FOR GENERATION (Y)	FUNCTION NAME
Χ	b'0000_0011	D00
X+1	b'0000_0101	D01
X+2	b'0000_0110	D02
X+3	b'0000_0111	D03
X+4	b'0000_1001	D04
X+5	b'0000_1010	D05
X+6	b'0000_1011	D06
X+7	b'0000_1100	D07
X+8	b'0000_1101	D08
X+9	b'0000_1110	D09
X+A	b'0000_1111	D10
X+B	b'0001_0001	D11
X+C	b'0001_0010	D12
X+D	b'0001_0011	D13
X+E	b'0001_0100	D14
X+F	b'0001_0101	D15
X+10	b'0000_0001	P00
X+11	b'0000_0010	P01
X+12	b'0000_0100	P02
X+13	b'0000_1000	P03
X+14	b'0001_0000	P04

ECC TABLE (ECCTLB)





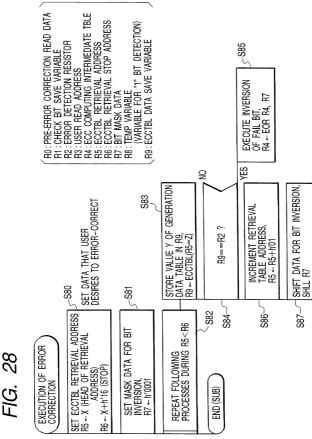


FIG. 29

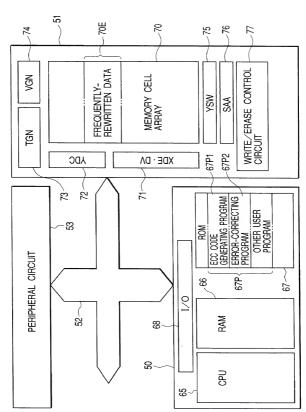


FIG. 30

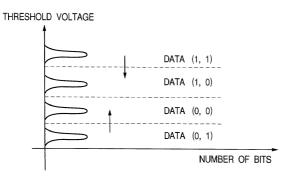


FIG. 31

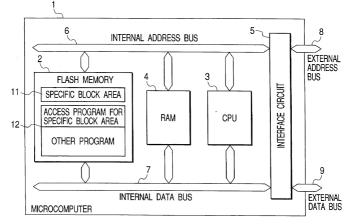


FIG. 32

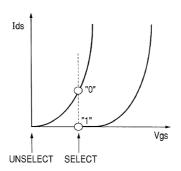
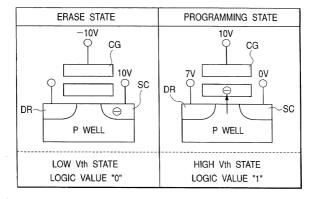


FIG. 33







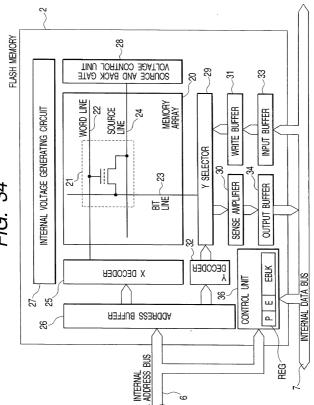
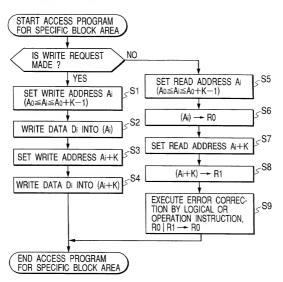


FIG. 35



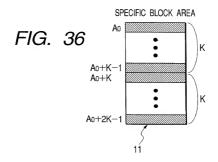


FIG. 37

